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Date:12.06.2023

TEST REPORT ON MECHANICAL PROPORTIES OF M.S. RECTANGULAR POLE

Client: Assistant Executive Engineer, Project Division, Dasarahalli,BBMP, Bangalore.
Contractor: Sri Nagaraj Hosur, Contractor, Bangalore.
Project Name: Development of park and Construction of watchmen room at Sidedahalli Govt.School Park in Dasarahalli Zone
Sample Identification: M.S. Rectangular Pole
Reference to BIS codes: IS 1161:1998 Steel for Structural Purposes-Specification
Date of test: 09.06.2023

Description of Sample	Description	Results	Required as per IS 2062:2006, 608:1989
M.S. Rectangular Pole of 2 equal angles 65mm X 65mm X 6mm	Yield Stress	189 N/mm2 Mpa	165 Mpa min
	Tensile Strength	335N/mm2 Mpa	290 Mpa min
	Percent	24	23% min

Note

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

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Date: 12.06.2023

TEST REPORT

Client	:	Assistant Executive Engineer, Project Division, Dasarahalli, BBMP, Bangalore.
Agency	:	Sri Nagaraj Hosur, Contractor, Bangalore.
Name of the work	:	Development of park and Construction of watchmen room at Sidedahalli Govt. School Park in Dasarahalli Zone
Type of the test	:	Physical tests on Paver Blocks
Samples supplied by	:	AGENCY

The results of the tests conducted on the Paver Blocks sample are as follows:

1. THICKNESS:

Sl.No	Identification	Thickness, mm	Average thickness, mm
1	01	60.15	60.16
2	02	60.17	

2. COMPRESSIVE STRENGTH:

Sl. No	Identification	Load in Kilo-Newton	Cross sectional area, mm^2	Compressive strength N/mm^2	Compressive strength Kg/m^2	Requirement as Specification
1	01	695.6	24,200	28.74	287.4	Minimum required Compressive Strength of Individual Units 281 Kg/ m^2
2	02	698.9	24,200	28.88	288.8	

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Date:12.06.2023

TEST REPORT OF PHYSICAL PROPERTIES OF PRE POLISHED CEMENT CONTCRETE DESIGNER TILES

Client — Assistant Executive Engineer, Project Division, Dasarahalli,BBMP, Bangalore.

Agency — Sri Nagaraj Hosur, Contractor, Bangalore.

Name of the work — Development of park and Construction of watchmen room at Sidedahalli Govt.School Park in Dasarahalli Zone

Description of Sample: Cement concrete flooring tiles, 25mm thick

Reference to BIS codes: IS 1237-2012 Specification for Cement ConcreteTiles

Date of test: 12.06.2023

1.WATER ABSORPTION:

Sl. No.	Water Absorption		Acceptability as per IS 1237-2012
	Percent by weight		
	Individual	Average	
1	2.9	3.0	The average water absorption of 6 tiles shall not exceed 10%
2	2.8		
3	3		
4	3.1		
5	3		
6	3.1		

2.FLEXURAL STRENGTH:

S.No.	Wet Transverse Strength		Acceptability as per IS 1237-2012
	Individual	Average	
	N/mm^2	N/mm^2	
1	6.5	6.5	The average modulus of rupture in bending of 6 tiles shall not be less than $3N/mm^2$
2	6.4		
3	6.7		
4	6.6		
5	6.3		
6	6.4		

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For CIVIL AIM CONSULTANTS & ENGINEERS

Asst. Executive Engineer, Dasarahalli Zone, BBMP, Bangalore

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Date :- 09.06.2023

NON-Destructive Test For RCC Wall

Client : Assistant Executive Engineer, Project Division, Dasarahalli,BBMP, Bangalore.

Agency : Sri Nagaraj Hosur, Contractor, Bangalore.

Name of Work : Development of park and Construction of watchmen room at Sidedahalli Govt.School Park in Dasarahalli Zone

Date of Testing : 09.06.2023

Sl. No.	Floor level / Structural Member /Identification	Trails	Rebound Hammer Value	Avg Rebound Hammer Value	Compressive Strength of Concrete (N/mm^2)	Impact Direction
RCC Wall						
1	For Gazebo Wall M20	Trail 1	30	31	24-26	Horizontal
		Trail 2	30			
		Trail 3	32			
		Trail 4	30			
		Trail 5	30			
		Trail 6	32			

Conclusion :

1. Compresive Found is Greater than the design Strength M20.
2. No Carbonation of concrete.

For CIVIL AIM CONSULTANTS & ENGINEERS

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QC ABSTRACT

Nameof Work: : Development of Park and Construction of Watchman Room at Sidedahalli Govt School Park at Dasarahalli Zone BBMP Bangalore

SI. No.	Item	Quantity As Per BOQ	Required No's of testes as per Frequency	Actual No's of testes as per Frequency	Testes Results
1	Materials	–	1	1	Pass
2	WMM	137.14Cum	-	-	Pass
		Atterberg Limits	2	2	Pass
		AIV	1	1	Pass
		Shape Test	1	1	Pass
		Gradation	2	2	Pass
3	Sand	16.73 Cum	1	1	Pass
4	Np2-1200mm	3.00 Mtrs	1	1	Pass
5	M10 Concrete	25.03 Cum	3	3	Pass
6	M20 Concrete	35.27 Cum	4	4	Pass
7	PaverBlock 60mm	597.59 Sqm	1	1	Pass
8	Slab - 100mm	7.20 Sqm	1	1	Pass
9	CPVC-50mm	18.15 Mtrs	1	1	Pass
10	TMT Steel	0.66 Tonne	1	1	Pass
11	Kerb Stone	260.33 No,s	1	1	Pass
12	ChainLink Fencing	127.74 Sqm	1	1	Pass
13	MS Blockpipe 38mm	368.26 Mtrs	1	1	Pass
14	MS Rectangular Pole	55.00 Mtrs	1	1	Pass
15	Designer Tiles	32.10 Sqm	1	1	Pass
16	MS Gate	9.09 Sqm	1	1	Pass

Cubes
0-5 Cum 1Set
6-15 Cum 2Set
16-30 Cum 3Set
31-50 Cum 4Set
Add 1set for extra 50Cum

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Job No.: CACE/BBMP/NH/PD-1/2022-23

Date: 09.02.2023

TEST REPORT

CLIENT	:	**Assistant Executive Engineer, Dasarahalli Project** sub division, BBMP, Bangalore.
AGENCY	:	**Sri. Nagaraj Hosur ,** Contractor, Bangalore.
NAME OF THE WORK	:	Development of Park and Construction of Watchman Room at Sidedahalli Govt School Park at Dasarahalli Zone BBMP Bangalore
SAMPLE ID	:	Cement (Birla OPC 53 Grade)
DATE OF MANUFACTURE		Jan-2023
DATE OF TESTING		07.02.2023 to 09.02.2023
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	31.00 %	-

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/NH/PD-1/2022-23 Date : 09.02.2023

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : Assistant Executive Engineer, Dasarahalli Project sub division, BBMP, Bangalore.

Agency : Sri. Nagaraj Hosur , Contractor, Bangalore.

Name of Work : Development of Park and Construction of Watchman Room at Sidedahalli Govt School Park at Dasarahalli Zone BBMP Bangalore

Date of Testing : 09.02.2023

Material : Sand - Masonry Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	14	1.40	1.40	98.6	90-100
1.18	38	3.80	5.20	94.8	70-100
600 Micron	84	8.40	13.60	86.4	40-100
300 Micron	256	25.60	39.20	60.8	5-70
150 Micron	489	48.90	88.10	11.9	0-15

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/NH/PD-1/2022-23

Date : 13.02.2023

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client	: Assistant Executive Engineer, Dasarahalli Project sub division, BBMP, Bangalore.
Agency	: Sri. Nagaraj Hosur , Contractor, Bangalore.
Name of Work	: Development of Park and Construction of Watchman Room at Sidedahalli Govt School Park at Dasarahalli Zone BBMP Bangalore
Steel Dia/Length	: 8mm,10mm," TMT"
Reference to BIS codes	: IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification
	: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature
Date of test	: 13.02.2023

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation , percent on gauge length
1	TMT	8	0.396	535	616	1.15	13.5
2	TMT	10	0.618	546	635	1.16	15

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Asst. Exec
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BBMP, Bangalore

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Job No: CACE/BBMP/NH/PD-1/2022-23 Date:16.02.2023

TEST REPORT ON CPVC PIPE

Client : Assistant Executive Engineer, Dasarahalli Project sub division, BBMP, Bangalore.

Agency : Sri. Nagaraj Hosur , Contractor, Bangalore.

Name of Work : Development of Park and Construction of Watchman Room at Sidedahalli Govt School Park at Dasarahalli Zone BBMP Bangalore

Sample Supplied by: :AGENCY

BIS Code: IS 13360(Part3/Sec 1):1995
IS 15778:2007

Sample Identification: CPVC pipe 50mm dia

Date of Testing 16.02.2023

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	54	54 mm
2	Mean Outside Diameter (mm)	54.1	Min 53.9 mm Max 54.1 mm
3	Outside Diameter at Any Point (mm)	53.9	Min 53.7 mm Max 54.3 mm
4	Density	1570 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

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Asst. Executive Engineer
Project Division, Dasarahalli Zone
BBMP, Bangalore

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Job No.: CACE/BBMP/NH/PD-1/2022-23

Date: 03.03.2023

KERB STONE (CORE) TEST REPORT

Client	:	**: Assistant Executive Engineer, Dasarahalli Project sub division, BBMP, Bangalore.**
Agency	:	**: Sri. Nagaraj Hosur , Contractor, Bangalore.**
Name of Work	:	: Development of Park and Construction of Watchman Room at Sidedahalli Govt School Park at Dasarahalli Zone BBMP Bangalore
No.of Sample Tested	:	03
Date of Testing	:	03.03.2023
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	80.00	0.367	2336.39	1.60	0.957	27.40	13.95	15.07	14.42	18.03
2	50.00	80.00	0.361	2298.20	1.60	0.957	26.80	13.65	14.74	14.10	17.63
3	50.00	80.00	0.374	2380.96	1.60	0.957	25.70	13.09	14.14	13.53	16.91

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Job No.: CACE/BBMP/NH/PD-1/2022-23 Date: 10.05.2023

TEST REPORT OF PHYSICAL PROPERTIES OF DESIGNER FLOOR TILES (25mm)

Client: : Assistant Executive Engineer, Dasarahalli Project sub division, BBMP, Bangalore.

Name of Work: : Sri. Nagaraj Hosur , Contractor, Bangalore.

Contractor: : Development of Park and Construction of Watchman Room at Sidedahalli Govt School Park at Dasarahalli Zone BBMP Bangalore

Reference to BIS codes: IS 1237-2012 Specification for Cement Concrete Flooring Tiles

Date of test: 06.05.2023 to 10.05.2023

WATER ABSORPTION:

Sl. No.	Water Absorption (%)	Acceptablity as per IS 1237-2012
1	6.5	The average water absorption of 6 tiles shall not exceed 10%
2	6.2	
3	6.4	
4	6.3	
5	6.8	
6	6.2	
Average of 6 tiles	6.4	

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/NH/PD-1/2022-23

Date:02.05.2023

TEST REPORT ON MECHANICAL PROPORTIES OF M.S.BLOCK PIPE

Client: Assistant Executive Engineer, Project Division, Dasarahalli,BBMP, Bangalore.

Contractor: Sri Nagaraj Hosur, Contractor, Bangalore.

Project Name: Development of park and Construction of watchmen room at Sidedahalli Govt.School Park in Dasarahalli Zone

Sample Identification: MS-Block Pipe 38MM dia,

Reference to BIS codes: IS 1161:1998 Steel for Structural Purposes-Specification

Date of test: 02.05.2023

Description of Sample	Description	Results	Required as per IS 1161-1998
MS-Block Pipe 38MM dia of heavy guage of 14	Mass	2.26 Kg/m	
	Yield Stress	235 N/mm2 Mpa	210 Mpa min
	Tensile Strength	350 N/mm2 Mpa	330 Mpa min
	Percent	22	20% min

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Asst. Executive Engineer
Project Division, Dasrahalli Zone
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Job No.: CACE/BBMP/NH/PD-1/2022-23

Date: 22.02.2023

Aggregate Impact Value

Client	Assistant Executive Engineer, Dasarahalli Project sub division, BBMP, Bangalore.
Agency	Sri. Nagaraj Hosur , Contractor, Bangalore.
Name of the Work	Development of Park and Construction of Watchman Room at Sidedahalli Govt School Park at Dasarahalli Zone BBMP Bangalore
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	22.02.2023

Sl No.	Details	Test No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	386	389	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	87	88	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	299	301	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.54	22.62	22.58

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

Note:

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Job No.: CACE/BBMP/NH/PD-1/2022-23

Date : 22.02.2023

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer, Dasarahalli Project sub division, BBMP, Bangalore.**
Agency	**Sri. Nagaraj Hosur , Contractor, Bangalore.**
Name of Work	Development of Park and Construction of Watchman Room at Sidedahalli Govt School Park at Dasarahalli Zone BBMP Bangalore
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	22.02.2023

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	11.80	11.50	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	12.90	12.70	
	Combined Flakiness & Elongation index	24.70	24.20	

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Project Division, Dasrahalli Zone
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Job No.: CACE/BBMP/NH/PD-1/2022-23

Date: 27.02.2023

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Project sub division, BBMP, Bangalore.**

Contractor : **Sri. Nagaraj Hosur , Contractor, Bangalore.**

Name of the work : Development of Park and Construction of Watchman Room at Sidedahalli Govt School Park at Dasarahalli Zone BBMP Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.02.2023	27.02.2023	8.124	169.5	7.53
2	20.02.2023	27.02.2023	8.139	177.8	7.90
3	20.02.2023	27.02.2023	8.120	182.8	8.12

Note:

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2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/NH/PD-1/2022-23

Date: 27.02.2023

TEST REPORT ON CONCRETE CUBES

Client	**: Assistant Executive Engineer, Dasarahalli Project sub division, BBMP, Bangalore.**
Contractor	**: Sri. Nagaraj Hosur , Contractor, Bangalore.**
Name of the work	: Development of Park and Construction of Watchman Room at Sidedahalli Govt School Park at Dasarahalli Zone BBMP Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{10}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.02.2023	27.02.2023	8.124	169.5	7.53
2	20.02.2023	27.02.2023	8.139	177.8	7.90
3	20.02.2023	27.02.2023	8.120	182.8	8.12

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Job No.: CACE/BBMP/NH/PD-1/2022-23 Date: 18.04.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**Assistant Executive Engineer, Dasarahalli Project sub division, BBMP, Bangalore.**
Agency	**: Sri. Nagaraj Hosur , Contractor, Bangalore.**
Name of the work	Development of Park and Construction of Watchman Room at Sidedahalli Govt School Park at Dasarahalli Zone BBMP Bangalore
Sample ID	: Cement Concrete for Wall
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.03.2023	18.04.2023	8.168	502.2	22.32
2	21.03.2023	18.04.2023	8.184	511.3	22.72
3	21.03.2023	18.04.2023	8.146	488.9	21.73

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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.03.2023	18.04.2023	8.184	505.2	22.45
2	21.03.2023	18.04.2023	8.165	513.6	22.83
3	21.03.2023	18.04.2023	8.146	484.2	21.52

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